

Amendments to the Specification

Please replace the Title with the following amended title:

PARTICLE DETECTION USING ~~FLUORESCENTS~~ FLUORESCENCE

Please amend the paragraph beginning at page 4, line 17, with the following amended paragraph:

Some biological particles may emit more induced fluorescence and/or experience a particular spectrum shift at lower temperatures, and other biological particles may emit more induced fluorescence and/or experience a spectrum shift at higher temperatures than at lower temperatures. Thus, and in some embodiments, a heater and/or cooler may be provided to heat and/or cool the sample, preferably in accordance with a temperature profile. At selected temperatures along the temperature profile, the intensity and/or spectra of the induced fluorescence may be monitored to help reveal the identity and/or class of particles that are present in the particle sample. While the humidity is preferably maintained at a constant level, it is contemplated that the humidity may be controlled or varied to provide additional discrimination, if desired. In addition, it is contemplated that the ~~pH~~ pH level of the sample collection surface may be controlled, which in some cases, may also help provide additional discrimination, if desired. It is also contemplated that certain chemicals may be selectively added to the sample, which may help denature proteins to provide additional discrimination, if desired.